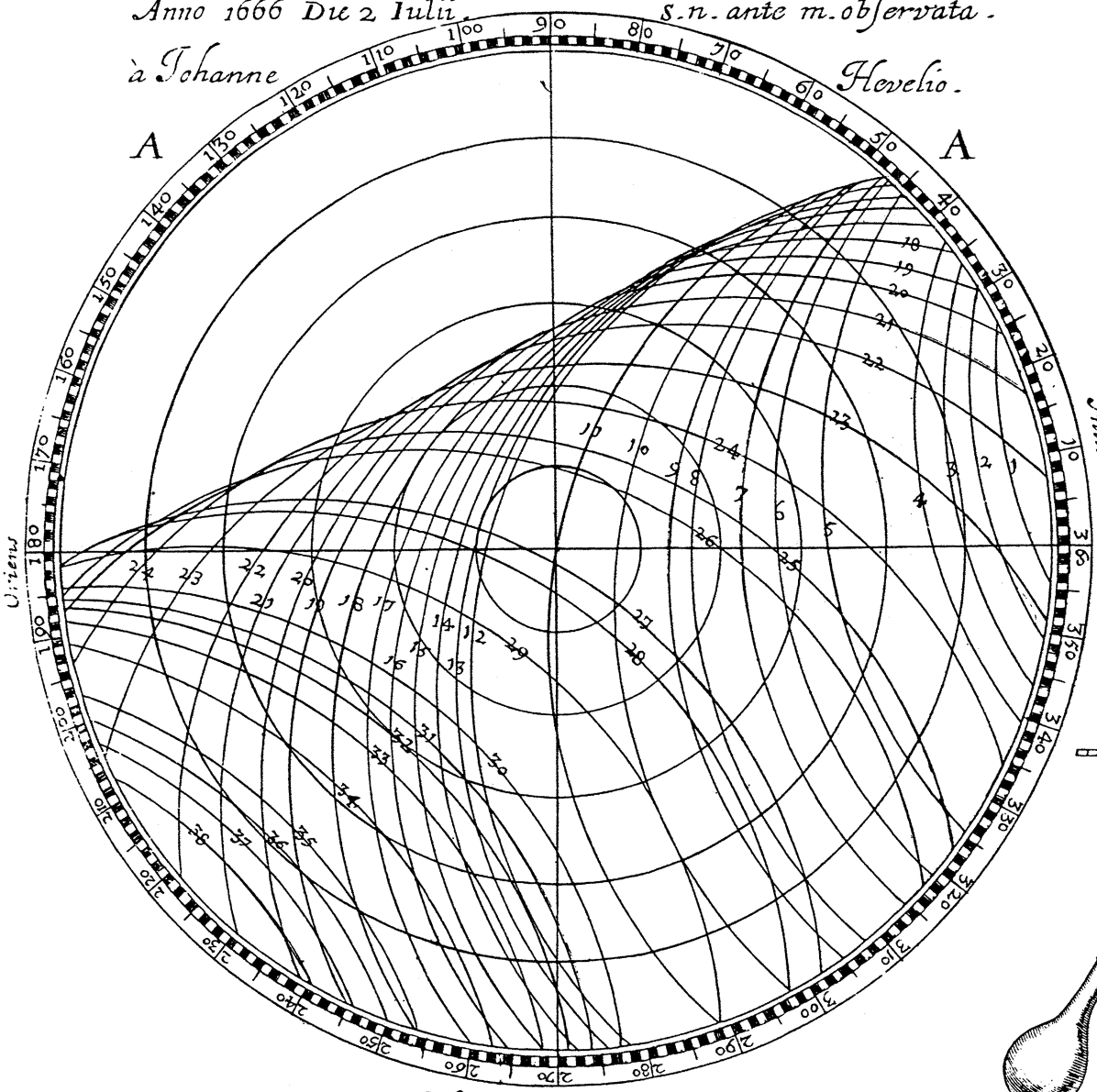
Eclipsis Solaris GEDANI.

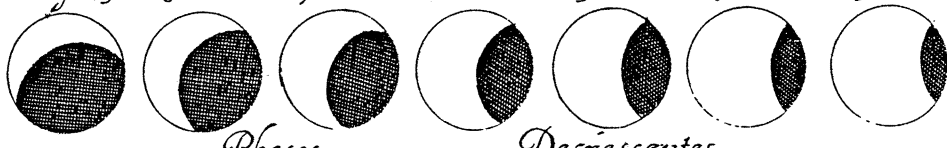
Anno 1666 Die 2 Iulii. S.n. ante m. observata.

à Johanne Hevelio.



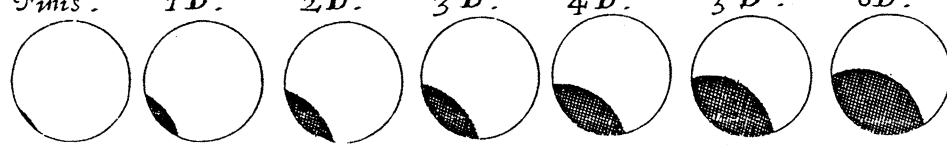
Phases Crescentes

Hor. 8 2.	H.7 49.	H.7 41.	H 7 34.	H.7 27.	H.7 21.	H.7 15.
8 Dig. 25	8 D.	7 D.	6 D.	5 D.	4 D.	3 D.

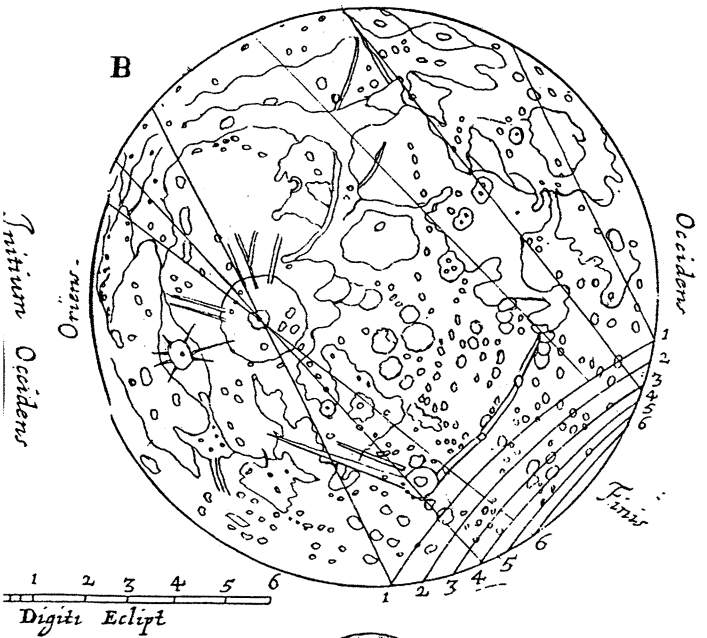
A 

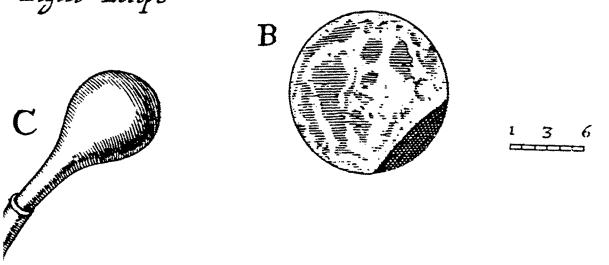
Phases Decrescentes.

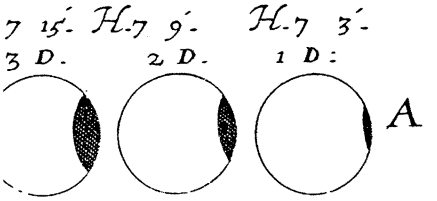
Hor. 9 9'	H 9 22'	H.8 57.	H.8 50.	H.8 43.	H.8 36.	H.8 29.
Finis.	1 D.	2 D.	3 D.	4 D.	5 D.	6 D.

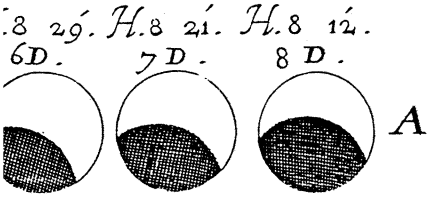
A 

Eclipsis Lunæ obſeruata
GEDANI,
Anno 1666. Die ☿ 16 Iunii St. n.
à Johanne Hevelio.









PHILOSOPHICAL TRANSACTIONS.

Munday, January 21. 1666.

The Contents.

Monſieur *Hevelius*'s Calculation of the late *Solar Eclipſe*'s Quantity, Duration, *&c.*

THis *Calculus* was not long ſince communicated by Monſieur *Hevelius* in a Letter to the *Publiſher,* as follows,

Eclipſis Solaris.

Obſervata An. 1666. D. 2. Julii, St. N. Mane, à Johanne Hevelio.

Ordo Phaſium	Quantitas Phaſium.	Tempus æquin. ſec. horol. ambulat.	Tempus ex Sciother.	Altitudo ☉	Tempus correct.	*Animadvertenda.*
		H. ′ ″	H. ′ ″	o. ′	H. ′ ″	
		5.51.11	5.51. 0	17.45	5.53.12	Quòd Sciatericum cum correcto tempore non omninò convenit, non-niſi Lineæ Meridianæ imputandum.
		5.57. 5	5.57. 0	18.37	5.59.28	
		6. 0. 0	6. 0. 0	18.55	6. 1.28	
	Initium.	6.55.30			6 57.30	Initium circa 79 gr. à puncto *Zenith* occaſum verſùs contigit.
1	o $\frac{3}{8}$ dig.	6.57.30			5.59.30	
2	o $\frac{3}{4}$	7 0.23	7. 0. 0		7. 2.23	
3	1 $\frac{1}{8}$	7. 2.30	7. 2. 0		7. 4.30	
4	1 $\frac{1}{2}$ dig.	7. 4.50	7. 5 ferè.		7. 6.50	
5	1 $\frac{3}{8}$ ferè.	7.10.57	7.10		7.12.57	
6	3 $\frac{3}{8}$	7.14.59	7.15		7.16.59	
7	3 $\frac{3}{4}$	7.17.50	7.18 ferè.		7.19.50	
8	4 $\frac{3}{8}$ dig.	7.21.35	7.21		7.23.35	
9	4 $\frac{2}{3}$	7.23.43	7.23 ferè.		7.25.43	
10	5 $\frac{1}{4}$	7.27.53	7.28		7.29.53	Hujuſque Semidiameter Lunæ æqualis extitit Solari.
11	6	7.31.50	7.32		7.33.50	
12	6 $\frac{3}{4}$	7.36.55	7.37		7.38.55	
13	6 $\frac{7}{8}$ paul. plus.	7.38. 5	7.38		7.40. 0	
14	7 $\frac{1}{8}$	7.39.45	7.39		7 41.45	
15	7 $\frac{1}{4}$ paul. plus.	7.42.30	7.42		7.44.30	
16	7 $\frac{1}{2}$	7.44. 6	7.44		7.46 6	
17	7 $\frac{2}{3}$	7.46. 0	7.46		7.48. 0	
18	8 ferè.	7.48.25	7.48 ferè.		7. 50.25	
19	8 $\frac{1}{5}$	7.51.15	7.51		7.53.15	
20	8 $\frac{1}{4}$ paul. plus.	7.53.37	7.52		7.55.37	
21	8 $\frac{5}{4}$	7.55.45	7.56 ferè.		7 57.45	
22	8 $\frac{3}{8}$ paul. min	7.59. 5	7.59		8. 1. 5	Maxima obſcuratio extitit digit. 8. 23′ hora 8. 2′.
23	8 $\frac{1}{2}$	8. 6.30	8. 6		8. 8.30	

Ordo

Ordo Phasium	Quantitas Phasium.	Temp. æstim. sec. horol. attribuit.	Temp. ex sciother.	Altitud. ☉	Tempus correct.	*Animadvertenda.*
		H. ′ ″	H. ′	o.	H. ′ ″	
24	7 3/4	8.11.25	8.12		8.13.25	Hic Semidiameter *Lunæ* ad 8′′ vel 9′′ major apparuit. *
25	7 1/4 ferè.	8.17.30	8.18		8.19.30	* *See Numb.* 19. *of the Philosophical Transactions*, p. 347.
26	7 fere.	8.19.41	8.19		8.21.41	
27	5 7/8	8.28. 8	8.28		8.30. 8	
28	5 1/2 fere.	8 30 14	8.30		8.32.14	
29	4 3/4	8 36 25	8.36		8.38.25	
30	3 5/8	8 43 19	8.43		8.45.19	
31	3 1/4	8 46 12	8.46 ferè.		8.48.12	
32	3	8.47.32	8.47		8.29.32	
33	2 3/4	8.50.57	8.50		8 .2.57	
34	2 1/2 fere.	8.54.15	8.54		8.56.15	
35	1 3/8	8.58.24	8.58		9. 0.24	
36	1 1/4	8.59.35	8.59		9. 1.35	
37	0 5/6	9. 1.38	9. 1		9. 3.38	
38	0 1/2	9. 3.20	9. 3		9. 5.20	
39	*Finis.*	9. 6.53	9. 6	Altit. ☉	9. 8.53	Punctum finis distitit à vertice ad Ortum 143 gr.
		9.23. 6		47.33	9.25.28	
		9.24.16		47.42	9.26.45	
		9.28.29		48.10	9.30.42	
		9.30.36		48.28	9.33.12	

This Obſervation is by the ſame *Aſtronomer*, repreſented alſo by the *Figures AAAAAA*; as that of the *Horizontal Eclipſe* of the *Moon*, is, by the *Figures BB*.